DVR/NVR Family Brochure

Q2 2013

Smart Solutions for Complex Security Projects

AVer's wide range of complete surveillance solutions provides users with a variety of specifications and software support to accommodate the demands of most security projects. AVer's leading hybrid technology gives users the flexibility to support both megapixel IP cameras and analog cameras using the same DVR. This cost-effective approach allows for IP camera installation in critical areas and use of analog cameras in less critical areas or areas with extensive analog infrastructures already in place. Users in search of a pure network solution can match AVer's array of megapixel IP cameras with our embedded NVRs, like the powerful, cost-saving Linux-based E5016. Rounding out AVer's smart security solutions is its advanced DVR/NVR software which ensures a friendly user experience and easy management of events through video footage clustering.

Plug and Play

This exclusive feature makes installation as easy as possible. Simply connect AVer IP cameras with an AVer DVR/NVR and then sit back and watch as each IP camera is automatically detected and connected to the DVR or NVR. Have your system up and running in no time.

Intelligent Streaming

Through this unique feature of the AVer total surveillance solution, users can optimize remote and local monitoring by selecting compression types, frame rates and quality for specific streams, achieving excellent image performance, especially during multi-channel preview.

Simplified Camera Settings

Users can individually adjust the video size and frame rate for every connected analog camera plus easily setup attached IP cameras through friendly features like hassle-free protocol searching for most major IP camera brands.

Advanced Alarm Settings

AVer's extensive real-time alarming conditions, such as motion detection and abnormal events, are easily set to trigger specific actions to address the situation, such as activating warning sirens, sending alarm notifications to the central management system (CMS), or launching an E-map or a specified camera image to draw the user's attention.

ONVIF

			4CH	8CH	16CH	32CH
NVR	Embedded Linux	Standalone	EXR6004 Mini HDD x 1		HDMI Full HD E5016 RAID HDD x 4	
Hybrid DVR	Windows	PCI-e card	NV6120T (PCIe 1x)	NV6240T (PCIe 1x)	NV6480T (PCIe 1x)	NV6480T x 2
					NV8416T (PCIe 4x)	NV8416T x 2
	Embedded Windows	Standalone			HDMI Full HD IWH5416 Touch II HDD x 6	HDMI Full HD IWH5416+16 HDD x 6
					IWH3216 Touch series IWH Touch: HDD x 4 IWH Touch II: HDD x 5	
	Embedded Linux			HDMI EH6108H+ HDD x 4	HDMI EH6216H+ HDD x 4	
					HDMI EH1116H-4+ (up to 4 IP camera channels) HDD x 2	
			EH1004H-4 Nano (up to 4 IP camera channels) HDD x 1	EH1008H-4 Nano (up to 4 IP camera channels) HDD x 1	HDMI EH1116H-4 Nano (up to 4 IP camera channels) HDD x 1	

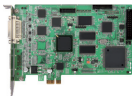
* NV6000 series capture cards are stackable up to 2 cards to create specialized configurations up to 32CH per PC.

model		IWH5416+16	IWH5416 Touch II	IWH3216 Touch II	IWH3216 Touch
		embedded hybrid DVR			
application		Project-based DVR perfect for cases with demanding specification requirements Ex. airports, transportation hubs, government offices, banks, shopping malls		Professional DVR series innovatively designed for medium to large-sized security projects Ex. shopping malls, hospitals, banks	
feature overview		・Quad-core processor for enhanced, full HD images ・Advanced data storage with up to 6 HDDs, plus e-SATA & iSCSI support ・S.M.A.R.T. status alarm preventing HDD failure ・All-new setup wizard for simplified system configuration		・Dual-core processor for accelerated performance ・Supports H.264 H/W compression up to 480 / 400fps recording ・Advanced data storage with up to 5 hot-swappable HDD, plus e-SATA & iSCSI support ・Intelligent video integration with iPOS, FaceFinder, PTZ tracking, and more	
system					
operating system		embedded Windows® 7 (64-bit)		embedded Windows® XP (32-bit)	
total channel number		32	16	16	
max. IP camera input		32	16	16	
max. analog camera input		16		16	
performance					
recording (analog)	compression	H/W H.264		H/W H.264	
	resolution	NTSC: 352 x 240 (CIF), 720 x 240 (Half-D1), 720 x 480 (D1)		NTSC: 352 x 240 (CIF), 720 x 240 (Half-D1), 720 x 480 (D1)	
		PAL: 352 x 288 (CIF), 720 x 288 (Half-D1), 720 x 576 (D1)		PAL: 352 x 288 (CIF), 720 x 288 (Half-D1), 720 x 576 (D1)	
	frame rate (NTSC/PAL)	CIF: 480 / 400fps		CIF: 480 / 400fps	
		Half-D1: 480 / 400fps		Half-D1: 480 / 400fps	
		D1: 480 / 400fps		D1: 240 / 200fps	
recording (IP)	resolution	up to 5 megapixels per channel, and a total of 80 megapixels for all channels in H.264 / MPEG-4 / MJPEG format		up to 5 megapixels per channel, and a total of 42 megapixels for all channels in H.264 / MPEG-4 / MJPEG format	
network throughput		180 Mbps	130 Mbps	40 Mbps	
display (analog)	frame rate (NTSC/PAL)	480 / 400fps		480 / 400fps	
storage	internal HDD capacity	6 SATA HDDs (6 removable HDD trays)		4 SATA HDDs (4 removable HDD trays) optional*: up to 5 SATA HDDs (5 removable HDD trays)	3 SATA HDDs optional*: up to 4 SATA HDDs (1 removable HDD tray)
	external HDD support	e-SATA HDD or RAID x1		e-SATA HDD or RAID x1	
	iSCSI support	yes		yes	
backup	internal DVD-RW	- (supports external DVD-RW)		- (supports external DVD-RW)	yes (swappable with 1 HDD tray)
interface					
monitor	VGA output	1 (up to 1920 x 1200)		VGA 1: up to 1920 x 1200 VGA 2: 1280 x 1024	
	HDMI output	1 (up to 1920 x 1200)		-	
	SPOT monitor output	2 (supports 1 hybrid multi-quad output and 1 full screen output from analog camera channels with triggered alarms)		2 (full screen output from analog camera channels with triggered alarms)	
audio	input	16 line-in, 8KHz sampling rate		16 line-in, 8KHz sampling rate	
	output	1 line-out		1 line-out	
MIC	input	1 line-in		1 line-in	
alarm	sensor (alarm) input	16		16	
		input voltage: max. DC 6V		input voltage: max. DC 6V	
	relay output	4 (NO / NC)		4 (NO / NC)	
		voltage range: AC 250V / DC 30V		voltage range: AC 125V / DC 30V	
		switching current: max. 1A		switching current: max. 1A	
network	Ethernet (RJ45)	2 (10/100/1000Base-T)		2 (10/100/1000Base-T)	
connection	e-SATA	1		1	
	RS-232	1 (D-sub 9 pins, male)		1 (D-sub 9 pins, male)	
	RS-485	1 set (Tx+, Tx-, Rx+, Rx-)		1 set (Tx+, Tx-, Rx+, Rx-)	
	USB 2.0	6 (2 ports on front panel, 4 ports on rear panel)		6 (2 ports on front panel, 4 ports on rear panel)	
control	front key pad	-	yes	yes	
	LCD display	-	yes (temperature / system status / free HDD space / alarm status)	yes (temperature / system status / free HDD space / alarm status)	-
general					
electrical	power input	250W PSU		120W power adapter, DC 19V	
environmental	operating temperature	0°C~40°C		0°C~40°C	
mechanical	dimensions (W x H x D)	430 x 105 x 410 mm		430 x 105 x 410 mm	430 x 60 x 370 mm
	weight (net)	8.36 kg		7.6 kg	5.2 kg

* installed upon assembly
Specifications are subject to change without prior notice

		embedded hybrid DVR		
model		EH6216H+	EH6108H+	EH1116H-4+
application		Feature-upgraded DVR series suitable for medium-sized and retail chain stores security applications Ex. supermarkets, university campuses, business plazas		Smart hybrid solution that is perfect for medium-sized projects Ex. restaurants, factories, warehouses
feature overview		· Supports H.264 H/W compression up to 480 / 400fps recording · Analog SPOT monitor and VGA / HDMI monitor output · Advanced intelligent streaming technology provides excellent preview performance · Remote software integration with CMS, iPhone, iPad, Android phone and tablet		· Embedded hybrid DVR that supports up to 4 IP cameras · Supports up to 5 megapixels for one channel to provide high quality images · Advanced intelligent streaming technology provides excellent preview performance · Remote software integration with CMS, iPhone, iPad, Android phone and tablet
system				
operating system		embedded Linux		embedded Linux
total channel number		16	8	16
max. IP camera input		16	8	4
max. analog camera input		16	8	16
performance				
recording (analog)	compression	H/W H.264		H/W H.264
	resolution	NTSC: 352 x 240 (CIF), 720 x 240 (Half-D1), 720 x 480 (D1)		NTSC: 352 x 240 (CIF), 720 x 240 (Half-D1), 720 x 480 (D1)
		PAL: 352 x 288 (CIF), 720 x 288 (Half-D1), 720 x 576 (D1)		PAL: 352 x 288 (CIF), 720 x 288 (Half-D1), 720 x 576 (D1)
	frame rate (NTSC/PAL)	CIF: 480 / 400fps	CIF: 240 / 200fps	CIF: 480 / 400fps
		Half-D1: 480 / 400fps	Half-D1: 240 / 200fps	Half-D1: 240 / 200fps
		D1: 240 / 200fps	D1: 120 / 100fps	D1: 120 / 100fps
recording (IP)	resolution	up to 5 megapixels for one channel, and a total of 16 megapixels for all channels in H.264 / MPEG-4 / MJPEG format	up to 5 megapixels for one channel, and a total of 8 megapixels for all channels in H.264 / MPEG-4 / MJPEG format	up to 5 megapixels for one channel, and a total of 8 megapixels for all 4 IP camera channels in H.264 / MPEG-4 / MJPEG format
network throughput		65 Mbps		50 Mbps
display (analog)	frame rate (NTSC/PAL)	480 / 400fps	240 / 200fps	480 / 400fps
storage	internal HDD capacity	3 SATA HDDs optional*: up to 4 SATA HDDs (1 removable HDD tray)		2 SATA HDDs
	external HDD support	e-SATA HDD or RAID x1		-
	iSCSI support	-		-
backup	internal DVD-RW	yes (swappable with 1 HDD tray)		-
interface				
monitor	VGA output	1 (1024 x 768)		1 (1024 x 768)
	HDMI output	1 (1024 x 768)		1 (1024 x 768)
	SPOT monitor output	2 (full screen output from analog camera channels with triggered alarms)		1 SPOT output (full screen output from analog camera channels with triggered alarms) 1 TV output (full screen output same as VGA video)
audio	input	16 line-in, 8KHz sampling rate	8 line-in, 8KHz sampling rate	4 line-in, 8 KHz sampling rate
	output	1 line-out		1 line-out
MIC	input	1 line-in		-
alarm	sensor (alarm) input	16		4
		input voltage: max. DC 6V		input voltage: max. DC 6V
	relay output	4 (NO / NC)		1 (NO / NC)
		voltage range: AC 125V / DC 30V		voltage range: AC 125V / DC 30V
		switching current: max. 1A		switching current: max. 1A
network	Ethernet (RJ45)	2 (10/100/1000Base-T)		1 (10/100/1000Base-T)
connection	e-SATA	1		-
	RS-232	1 (D-sub 9 pins, male)		1 (D-sub 9 pins, male)
	RS-485	1 set (Tx+, Tx-, Rx+, Rx-)		1 set (Tx+, Tx-, Rx+, Rx-)
	USB 2.0	3 (front panel)		2 (front panel)
control	front key pad	yes		yes
	LCD display	-		-
general				
electrical	power input	90W power adapter, DC 19V		48W power adapter, DC 12V
environmental	operating temperature	0°C ~ 40°C		0°C ~ 40°C
mechanical	dimensions (W x H x D)	430 x 60 x 370 mm		430 x 60 x 370 mm
	weight (net)	5.7 kg		3.7 kg

		embedded hybrid DVR		
model		EH1116H-4 Nano	EH1008H-4 Nano	EH1004H-4 Nano
application		Featuring a compact size with an intuitive graphical interface, this user friendly DVR series is designed for retail industry and residential sector applications Ex. convenience stores, ATMs, homes		
feature overview		・Compact-sized embedded hybrid DVRs that support up to 4 IP cameras ・Fan-less (4/8CH) and mini-fan (16CH) system design provide noise-free environment ・Advanced intelligent streaming technology provides excellent preview performance ・Remote software integration with CMS, iPhone, iPad, Android phone and tablet		
system				
operating system		embedded Linux		
total channel number		16	8	4
max. IP camera input		4		
max. analog camera input		16	8	4
performance				
recording (analog)	compression	H/W H.264		
	resolution	NTSC: 352 x 240 (CIF), 720 x 240 (Half-D1), 720 x 480 (D1)		
		PAL: 352 x 288 (CIF), 720 x 288 (Half-D1), 720 x 576 (D1)		
	frame rate (NTSC/PAL)	CIF: 480 / 400fps	CIF: 240 / 200fps	CIF: 120 / 100fps
		Half-D1: 240 / 200fps	Half-D1: 120 / 100fps	
		D1: 120 / 100fps	D1: 60 / 50fps	
recording (IP)	resolution	up to 5 megapixels for one channel, and a total of 8 megapixels for all 4 IP camera channels in H.264 / MPEG-4 / MJPEG format		
network throughput		50 Mbps	17.5 Mbps	
display (analog)	frame rate (NTSC/PAL)	480 / 400fps	240 / 200fps	120 / 100fps
storage	internal HDD capacity	1 SATA HDD		
	external HDD support	e-SATA HDD or RAID x1		
	iSCSI support	-		
backup	internal DVD-RW	-		
interface				
monitor	VGA output	1 (1024 x 768)		
	HDMI output	1 (1024 x 768)	-	
	SPOT monitor output	1 SPOT output (full screen output from analog camera channels with triggered alarms) 1 TV output (full screen output same as VGA video)		
audio	input	4 line-in, 8 KHz sampling rate		
	output	1 line-out		
MIC	input	-		
alarm	sensor (alarm) input	4		
		input voltage: max. DC 6V		
	relay output	1 (NO / NC)		
		voltage range: AC 125V / DC 30V		
		switching current: max. 1A		
network	Ethernet (RJ45)	1 (10/100/1000Base-T)	1 (10/100Base-T)	
connection	e-SATA	1		
	RS-232	1 (D-sub 9 pins, male)		
	RS-485	1 set (Tx+, Tx-, Rx+, Rx-)		
	USB 2.0	2 (front panel)		
control	front key pad	-		
	LCD display	-		
general				
electrical	power input	48W power adapter, DC 12V	24W power adapter, DC 12V	
environmental	operating temperature	0°C ~ 40°C		
mechanical	dimensions (W x H x D)	245 x 50 x 160 mm		
	weight (net)	0.8 kg		



		hybrid capture card			
model		NV8416T	NV6480T	NV6240T	NV6120T
application		Customizable security solution to accommodate a variety of demands for different types of security projects Ex. mechanic shops, parking lots, business buildings			
feature overview		・Customize your own surveillance system that is stackable up to 32CH ・Hybrid SPOT monitor and dual monitor output ・S/W compression with real-time recording and display ・Advanced iPOS function and POS integration with most commonly used systems ・Remote software integration with CMS, iPhone, iPad, Android phone and tablet			
system					
interface		PCI-e 4x	PCI-e 1x		
operating system		supports Windows® XP (32-bit) / 7 (32 / 64-bit)			
total channel number		16 (stackable up to 2 cards)		8 (stackable up to 2 cards)	4 (stackable up to 2 cards)
max. IP camera input		16		8	4
max. analog camera input		16		8	4
performance					
recording (analog)	compression	S/W H.264 / MPEG-4			
	resolution	NTSC: 352 x 240 (CIF), 640 x 480 (VGA), 720 x 240 (Half-D1), 720 x 480 (D1)			
		PAL: 352 x 288 (CIF), 640 x 480 (VGA), 720 x 288 (Half-D1), 720 x 576 (D1)			
	frame rate (NTSC/PAL)	CIF: 480 / 400fps		CIF: 240 / 200fps	CIF: 120 / 100fps
		VGA: 480 / 400fps		VGA: 240 / 200fps	VGA: 120 / 100fps
		Half-D1: 480 / 400fps	Half-D1: 240 / 200fps		Half-D1: 120 / 100fps
		D1: 480 / 400fps	D1: 160 / 128fps	D1: 240 / 200fps	D1: 120 / 100fps
recording (IP)	resolution	up to 5 megapixels per channel, and a total of 80 megapixels for all channels in H.264 / MPEG-4 / MJPEG format			
network throughput		n/a			
display (analog)	frame rate (NTSC/PAL)	480 / 400fps		240 / 200fps	120 / 100fps
storage	Internal HDD capacity	-			
	external HDD support	-			
	iSCSI support	yes			
backup	internal DVD-RW	-			
interface					
monitor	VGA output	supports up to 1920 x 1200 (from graphic card)			
	HDMI output	supports up to 1920 x 1200 (from graphic card)			
	SPOT monitor output	1 (supports hybrid multi-quad VGA output)			
audio	input	16 line-in, 8 KHz sampling rate		8 line-in, 8 KHz sampling rate	4 line-in, 8 KHz sampling rate
	output	-			
MIC	input	-			
alarm	sensor (alarm) input	4 (with I/O card)			
		input voltage: max. DC 6V			
	relay output	4 (with I/O card)			
		voltage range: AC 125V / DC 30V			
		switching current: max. 1A			
network	Ethernet (RJ45)	-			
connections	e-SATA	-			
	RS-232	-			
	RS-485	-			
	USB 2.0	-			
control	front key pad	-			
	LCD display	-			
general					
environmental	operating temperature	0°C ~ 40°C			
mechanical	dimensions (W x H x D)	165 x 109.5 mm	167 x 109.5 mm		
	weight (net)	0.143 kg	0.118 kg	0.113 kg	

HDMI Full HD 1080

NEW

		NVR	
model		E5016	EXR6004 Mini
application		Powerful NVR designed for medium- to large-scale projects Ex. banks, shopping malls, public facilities	Compact-size standalone NVR for retail and small-sized projects Ex. jewlery stores, main passage ways, homes
feature overview		・PC-like performance with the stability of Linux ・Impressive 120 Mbps throughput rate ・Intuitive, easy-to-learn standardized GUI design ・Plug and play and intelligent streaming support	・Embedded Linux system with compact design ・Dual gigabit LAN support ・Local display & setup ・Remote software integration with CMS, iPhone, iPad, Android phone and tablet
system			
operating system		embedded Linux	embedded Linux
total channel number		16	4
max. IP camera input		16	4
performance			
recording (IP)	resolution	up to 5 megapixels for one channel, and a total of 32 megapixels for all channels in H.264 / MPEG-4 / MJPEG format	up to 5 megapixels for one channel, and a total of 8 megapixels for all channels in H.264 / MPEG-4 / MJPEG format
network throughput		120 Mbps	40 Mbps
storage	internal HDD capacity	4 SATA HDDs (4 removable HDD trays)	1 SATA HDD
	internal RAID support	yes (level 0, 1, 10)**	-
	external HDD support	e-SATA HDD or RAID x 1	e-SATA HDD or RAID x 1
	iSCSI support	-	-
backup	internal DVD-RW	- (supports external DVD-RW)	-
interface			
monitor	VGA output	1 (1920 x 1080)	1 (1024 x 768)
	HDMI output	1 (1920 x 1080)	-
	SPOT monitor output	1 (supports hybrid multi-quad output)	-
audio	input	via IP camera	via IP camera
	output	1 line-out	1 line-out
MIC	input	1 line-in	1 line-in
alarm	sensor (alarm) input	16	4
		input voltage: max. DC 6V	input voltage: max. DC 6V
	relay output	4 (NO / NC)	1 (NO / NC)
		voltage range: AC 125V / DC 30V	voltage range: AC 125V / DC 30V
		switching current: max. 1A	switching current: max. 1A
network	Ethernet (RJ45)	2 (10/100/1000Base-T)	2 (10/100/1000Base-T)
connection	e-SATA	1	1
	RS-232	1 (D-sub 9 pins, male)	-
	RS-485	1 set (Tx+, Tx-, Rx+, Rx-)	-
	USB 2.0	3 (2 ports on front panel, 1 port on rear panel)	3 (1 port on front panel, 2 ports on rear panel)
general			
electrical	power input	90W power adapter, DC 19V	48W power adapter, DC 12V
environmental	operating temperature	0°C~40°C	0°C~40°C
mechanical	dimensions (W x H x D)	430 x 105 x 410 mm	245 x 53 x 160 mm
	weight (net)	8kg	0.8kg

** This represents AVer's current view of its product development cycle and future directions.

AVer Surveillance Solution

AVer IP cameras

VMS
NXU Lite / NXU8000

HD NVR / hybrid DVR

internet

Central Management Software

3G / Wi-Fi ready
mobile devices

3G network

Central Management Software (CMS) – CM3000 & CM3000 Gold

- Connect and control up to 1000 AVer DVRs, NVRs, and/or VMS
- Quad monitor support
- Supports up to 64 E-maps or Google maps to integrate and display incident alerts and live video
- Remote playback and backup for reviewing recorded video and retrieving critical images
- Advanced alarm center with multiple operator management
- Remote iAlarm for monitoring live alarm events and assigning them to remote managers
- Remote iMatrix for grouping up to 128 monitor views into myriad combinations to create a TV-wall command center
- Remote Setup for remote configuration of cameras, recordings, schedules and alarms

* E5016 NVR is designed for operation with the upcoming CM5000, AVer's next generation of CMS.

Mobile Control and Access

- Support for iPad, iPhone, Android phone and tablet
- Single or multi-channel live monitoring anytime and anywhere
- Savable profiles for fast connection during future use
- Remote PTZ camera control
- Remote download and playback of selected video footage

Video Intelligence

- Missing object :
  Alarm triggered when defined objects are removed from monitored zones, such as a painting taken off the wall at a museum or art gallery
- Suspicious object :
  Alarm triggered when objects are left alone for an extended period of time, such as baggage left unattended at an airport or railway station
- Scene change :
  Alarm triggered when there is an attempt to reposition or obstruct a monitoring camera, such as a vandal spray painting over the camera lens
- Visual search :
  Easily search by days, hours, minutes, and even seconds for recorded data on a selected channel
- PTZ tracking :
  Zoom in/out, focus, autopan, track moving objects and more from both the local and the remote

POS Integration

- Full compatibility with popular POS systems
- Easy management through the real-time POS data overlay on live video display
- Integrated confidential keyword filter for protection against employee tampering
- Use POS keywords to trigger notifications
- Adjust POS text location and font colors during video playback
- Search transaction data and playback video directly from the live monitoring screen through the advanced iPOS function (IWH / NV series)

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